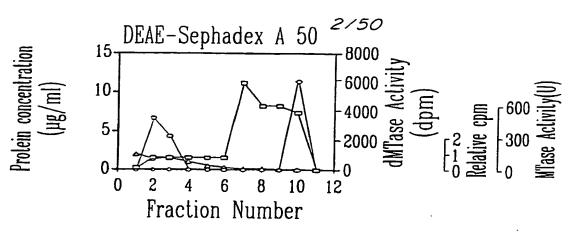
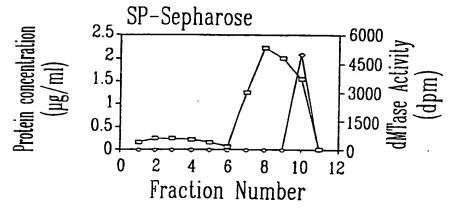
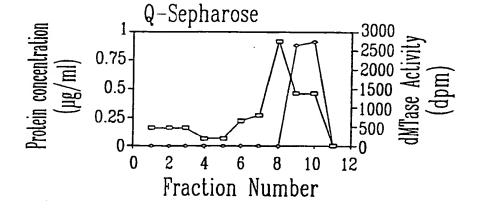
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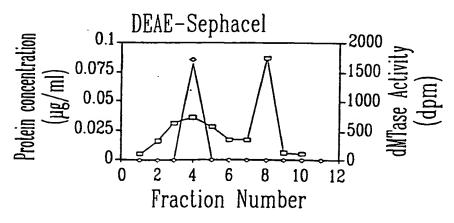
1/50

Fractions NM M **DEAE** Fractions NM ME SP-Sepharose mdCMP- dCMP Fractions NMME Sepharose \_mdCMP - dCMP Fractions NMSephacel dCMP pmCpGpmCpG MNase





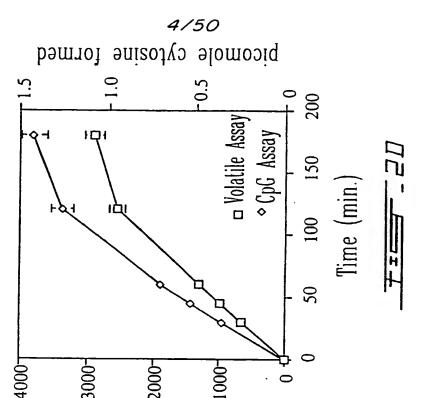


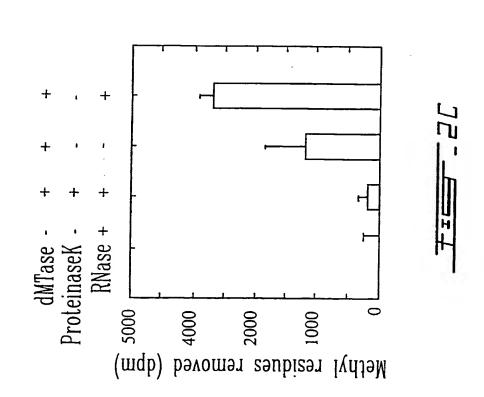


T== 1B

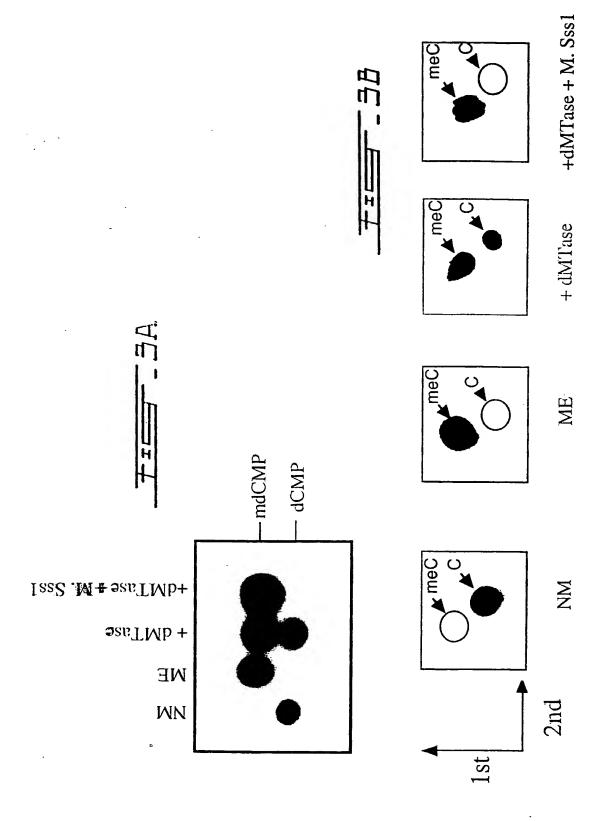
PCT/CA98/01059

— mdCMP — dCMP		— mdCMP — dCMP
	7 t P	
	Чε	
	11.7	
	4 C.	
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	nim 2 <del>1</del>	
<b>\$</b>	aim O£	
•	WE	
•	MN	
		ME  30 min  24 h  1 h  24 h  1 h  24 h





Methyl residues removed (dpm)



76-

6/50

+ВИзге 150 - V PDS 09 0 N'EqCTP dGTP origin — HMINN -RMasc +BNuse mdCMP dCMP -150 - V PDS 09 0 N.E. QCTP origin dCDP dCTP

Labeled nucleotide: [α32P]-dGTP

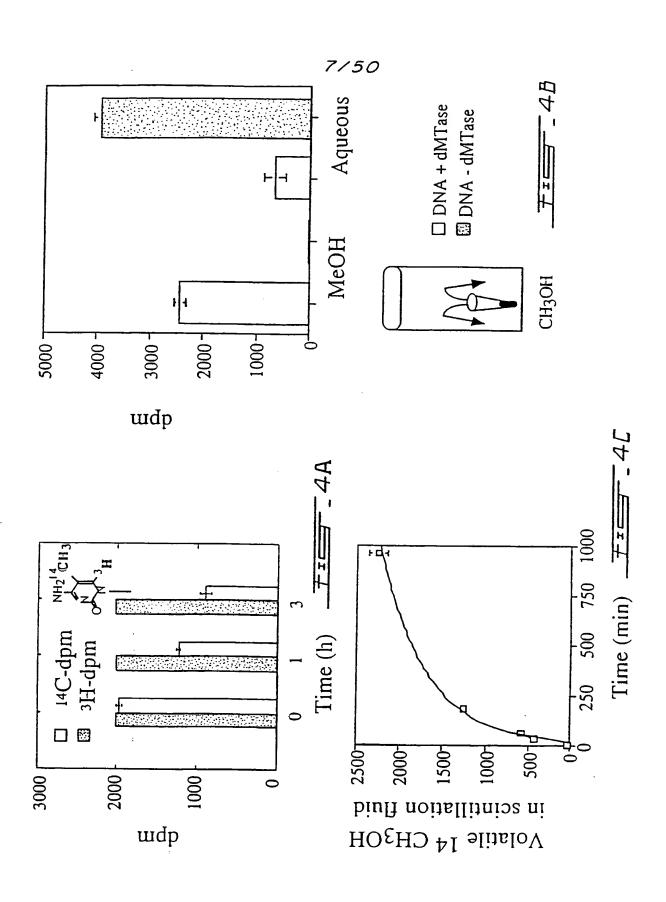
Labeled nucleotide:

[a32P]-dCTP

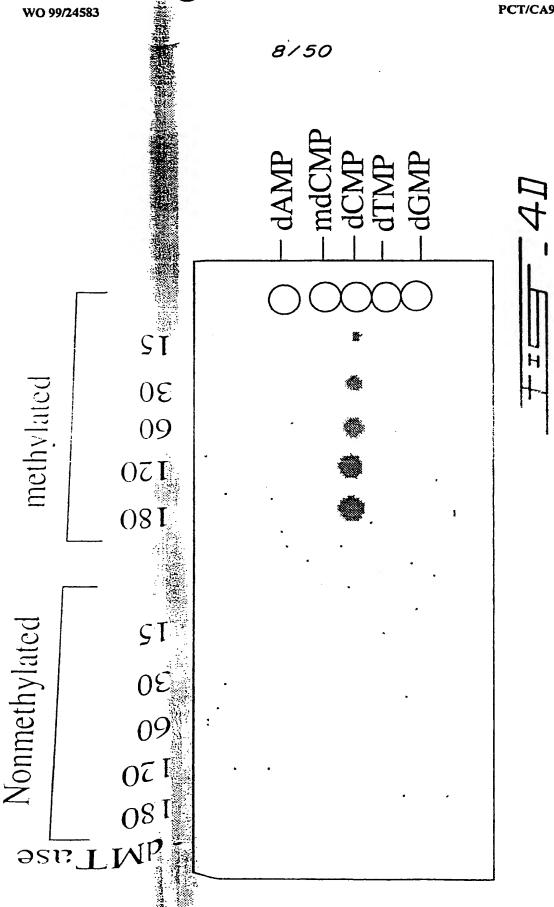
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\*pmCpGpmCpG

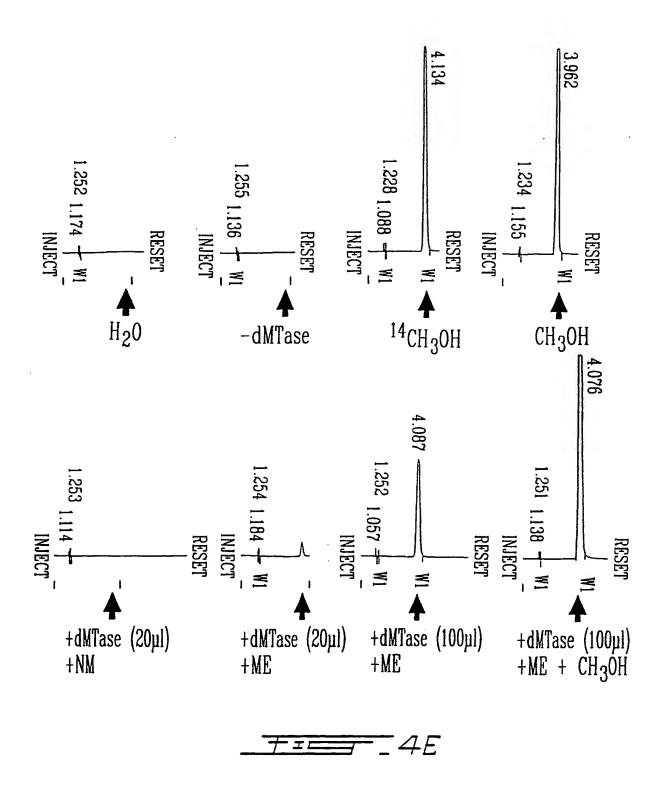
CIIDCTITIITE CUEET (DIII E 26)



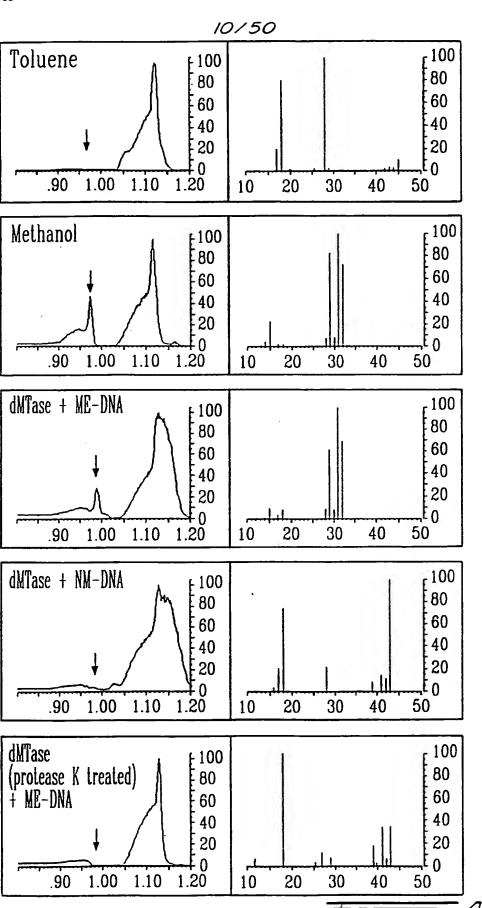
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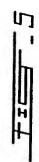


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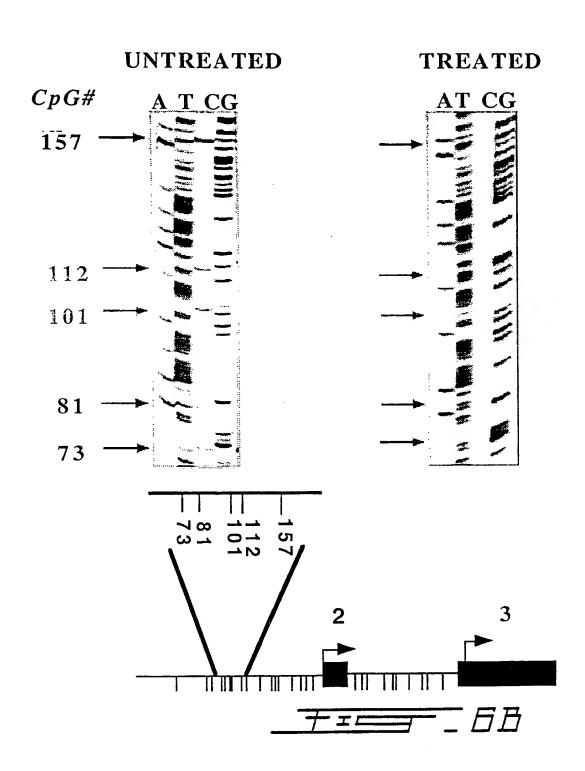


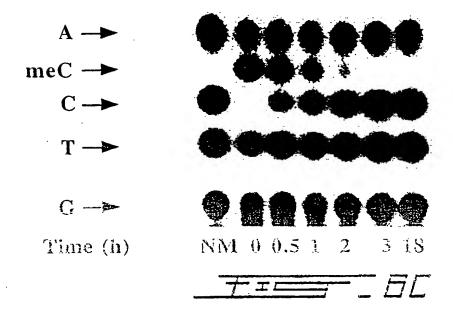
$$\triangle G_{\text{Reaction}} = (93) - (103 + 91.5) = (-101.5) \text{ Keal}$$

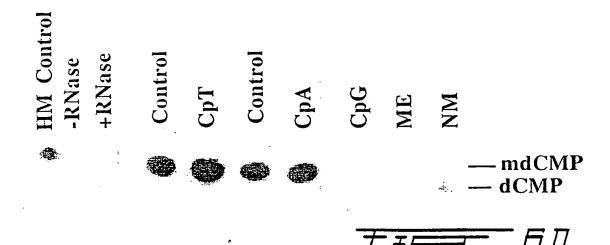


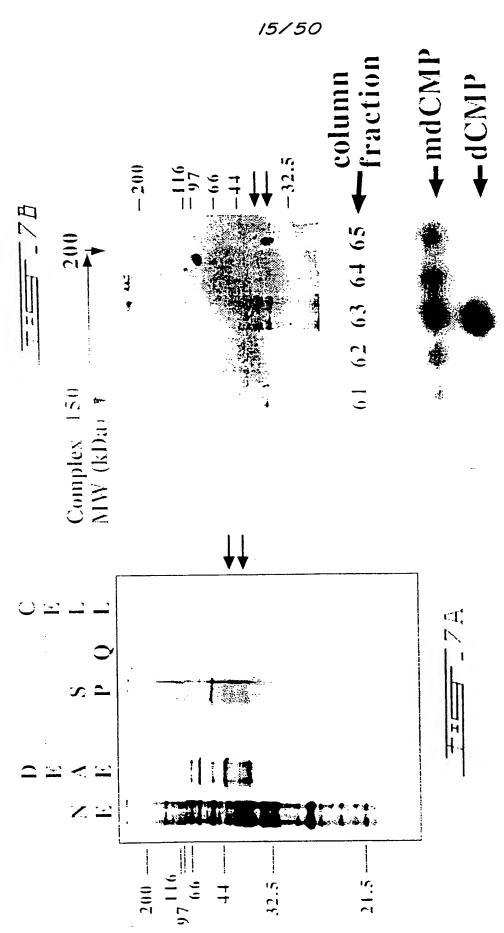
DOSSILL LOSOSIO

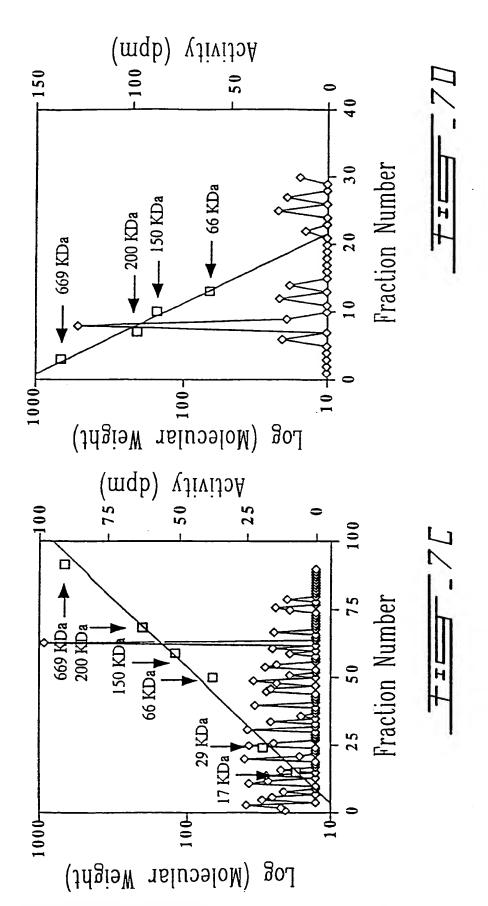
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PCT/CA98/01059

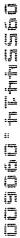
17/50

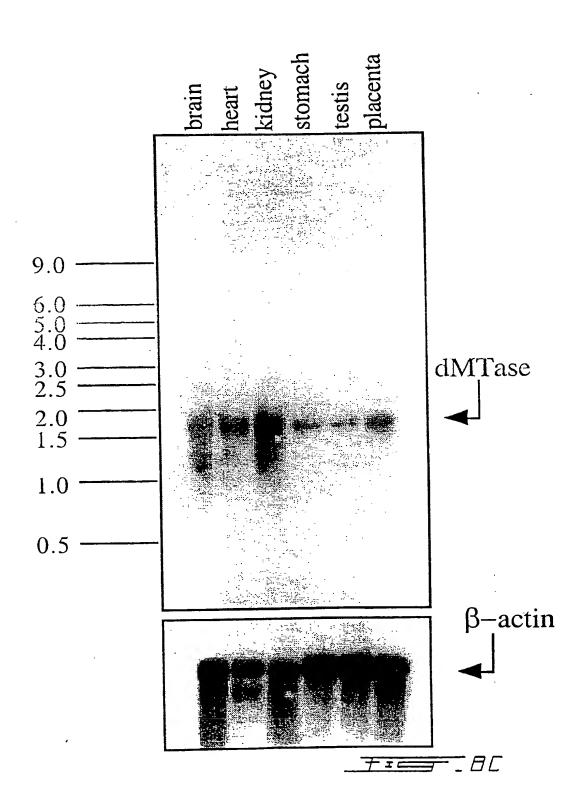
LIAYFEKVGDIS 68  TEET BA		homology to methylated DN	binding domain	homology to coiled	coll domain		
QGKAFRSKVEI	40	80	120	160	200	240	262
MeCP2 15 DDPII_PEGWIRKI_KQRKSGRSAGKYDVYL_INPQGRAFRSKVEL_IAYFEKVGDIS 68	MDCPALPPGW KKEEVIRKSG LSAGKSDVYY FSPSGKKFRS 40	KPOLARYLGN TVDLSSFDFR TGKMMPSKLQ KNKQRLRNDP 80	LNONKGKPDL NTTLPIRQTA SIFKQPVTKV TNHPSNKVKS 120	DPQRMNEQPR QLFWEKRLQG LSASDVTEQI IKTMELPKGL 160	QGVGPGSNDE TLLSAVASAL HTSSAPITGQ VSAAVEKNPA 200	VWLNTSQPLC KAFIVTDEDI RKOEERVOOV RKILEDALMA	DILSRAADTE EMDIEMDSGD EA

WO 99/24583

oommune oomma

EST





# Human DNA demethylase cDNA-dMTase1 and predicted amino acid sequence

gcagcggcct cccccddcd tagacaata gggggcggtg gaagtagaag cccgggccac aggaggaagt gtccaagtgg ttgatctcag acaaacagag caacattgcc atcatcctag gcccgctcta ccgggattcc tgcgcgcgca ggaggaccta cgggcggcag cccaggggac ggaaatactg ttacagaaga gacttgaata ggatggaaga tactacttca aaagtcacaa ggccgtggcc cggggccggg ccgagtggcg ggcggcggcg gagagtgcgg ggcagcgcgc catagcgctt ctctgtgcgc gggcgggtct gggggctgga gatggccgcc gcctagtaaa aggaagtaca cggcagcggt actacacaca gagcgatgtc aaggtacctg aggagggccg tggccgtggc gggtaaacca accggtaacc taggggagga gctgcgggcg cggctgggga gggggccag ggaggaggg cdcdcdccdc agcgcagcgc ccatagagca gggaaggcgc dccddddacd gcggcggcgg cggggagcgc attgcccggc gtgctggcaa ctcagttggc gaaagatgat atcaaaataa ttttcaaaca gcccggagca gaggagtatg gcggagacaa cdccccdddc acagcatcaa ggccgctgct ggcgactccg cctttcccgt tctgggctaa agaagcaagc ttcagaactg gatcctctca gccggggcca gagagaacaa ggcgtgcgca cggggccggg ttacggaaga ggccggggcg ggcggcggct cccgagaag aagaggatgg cagttttgac ggagccggtc gatccgaaaa taagaagttc actgcgaaac aattaqacaa gaagcaggcg tggcggcgac ggagagcggg aagggctcgg cccgggggga cggcgctggc cccggtgagc gggacgggga 5 ' gggggcgtgg agaggcggtg tgatgcttgc

aaaccatgga ttttatctgc

ttttctggga

ccacgtcagc

gaatgaacag tgtaacagaa

caaattataa

gatgagaccc

aggtagcaat

gtgcatcaga

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taataaagtg

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aaatcagacc

cacaacgaat

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SEQ ID NO:1 四日 - x -

MRAHPGGGRCCPEQEEGESAAGGSGAGGDSAIEQGGQGSALAPSPVSGVR

21/50

WLNTSQPLCKAFIVTDEDIRKQEERVQQVRKKLEEALMADILSRAADTEE GSGLGGDGGCGGGGSGGGAPRREPVPFPSGSAGPGPRGPRATESGKRM DCPALPPGWKKEEVIRKSGLSAGKSDVYYFSPSGKKFRSKPQLARYLGNT KTMELPKGLQGVGPGSNDETLLSAVASALHTSSAPITGQVSAAVEKNPAV REGARGGGRGRGRWKQAGRGGGVCGRGRGRGRGRGRGRGRGRPPSG VDLSSFDFRTGKMMPSKLQKNKQRLRNDPLNQNKGKPDLNTTLPIRQTAS I FKQPVTKVTNHPSNKVKSDPQRMNEQPRQLFWEKRLQGLSASDVTEQI I MDIEMDSGDEA

SEQ ID NO:2

### 

## Human DNA demethylase homologue-dMTase2 and predicted amino acid sequence

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gcagccagca

agactggaga

cagctccttg

23/50

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FEET - BF

NO:4

SEQ

96 -

 $^{\sim}140$ 

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^110

 $^{100}$ 

√90

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				_	_				2	5/50			
		Consensus	Length	250	250		KICKMMPSK	RIGKM: SK	RICKMIMSK	~20	v280	RQILFWEIKRL	RQLEWEK:L
		Gap	Length	0	0	v210	[VDL.SSFDF]	DIS: FDF	SMDL STFDFF	09~	v270	<b>JPQRMNEQPI</b>	PPC: :QPC
		Gap	Number	0	0	v200	SKPQLARYLGN	SKPQLARYLG.	SKPQLARYLGG	^20	v260 v	VINHPSNKVKSI	: TIM-IPSNKVKSI
	2.1	Similarity	Index	76.0	76.0	v190	SPSCKKFR	SPSCKKFR	<b>ISPSGKKFR</b>	~40	v250	SIFKQPVIK	SIFKQPVIK
gnment Car I are the Describer 40	Ktuple: 2; Gap Penalty: 4; Gap Length Penalty: 12	Seq2(1>291)	human dMTase2 protein	(4>253)	(4>253)	v170 v180	KRMDCPAL PPGMKKEEVIRKSGLSAGKSDVYYFSPSGKKFRSKPQLARYLGNIVDLSSFDFRIGKMMPSK	KR : CPALP.GW.: EEV R:SGLSAG DV:Y:SPSGKKFRSKPQLARYLG.::DLS:FDFRTGKM: SK	KRWECPAL POGWEREEVPRRSGLSAGHRDVFYYSPSGKKFRSKPQLARYLGGSMDLSTFDFRTGKMLMSK	^20 ^30	v240 v	L OKNIKORLIRNDPI NONKGKEDI NITILIPI ROTASI FKOPVITKVINI HPSNKVKSDPORMNEO PROLFWEKRL	::K::QR:R D: NQ KGKPDLNT:LP:RQTASIFKQPVIK:TNHPSNKVKSDPQ: :QPRQLFWEK:L
Lipman-Pearson Protein Alignment	tp Penalty: 4;					v160	PEGMKKEEVI	P. GW.: EEV	<b>QGWERREEVE</b>		v230	RNDPLNQNKC	R D: NO KG
Lipman-Pears	Ktuple: 2; Gs	Seq1(1>411)	human dMTase1 protein	(148>397)	(148>397)	v150	KRMDCPALI	KR : CPALL	KKWECPALI	~10	v220	LOKNIKORLI	::K::QR:1

SUBSTITUTE SHEET (RULE 26)

26/50  $^{\sim}210$ **QELSASDVIEDIIKIMELPKGLQGVGFGSNDETLLSAVASALHTSSAPITGQVSAAVEKNPAVMLNTSOP** GL:A D::E:::KTM:LPKGLQGVGFG..DETLLSA:ASALHTS: PITGQ:SAAVEKNP:VMLNT:QP SCINAFDIAEELVKIMDLPKCLQGVGFCCIDEITLSALAISALHISIMPIITGQLSAAVEKNFGVMLNIIQP v350 ^200 v340^190 v330  $^{\sim}180$ v320 ^170 v310 $^{\sim}160$ v300  $^{150}$ v290

v360 v370 v380 v390
LCKAFIVIDEDIRKQEERVQQVRKKLEEALMADILSRAAD
LCKAF:VIDEDIRKQEE VQQVRK:LEEALMAD:L::.:
LCKAFMVIDEDIRKQEELVQQVRKRLEEALMADMLAHVEE
^220 ~230 ~240 ~250

10 \_\_\_\_\_\_\_

Mouse DNA demethylase-dMTase1 and predicted amino acid sequence

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gggaggccgc

teggttacgg

ttccaagggc

ggcgggcgg gtctccggga

5'ccgctctgcg

cgcacccggg

tggatgcgcg

gggagggggc

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PCT/CA98/01059

agtgctttac gggaagagga aaatcagggc aaaggtcttc caaactgcat ctacaaggac gtccctttcc ttcagaagta gacttcagga aatqacccc gtgaagtcag ddcddcdcdd ddcddcddcd cggggccggg cgcagggaag tccgccatag tree \_ \_ \_ \_ \_ \_ \_ \_ gagcaataag tgctgtggcc ggagctacct ggagaagagg tggtaagaag tagcagtttt gagactccgg gaggatact cacggagagc agtgatccga gccaattaga gagcggcgtg ggcggcccgg tggccggggc cgacggcggc tggcggcgac ccctcctgtc taaaaaccat cgaaccaccc agaacaagca agcttttctg tcagtccaag acacaacatt gaccccgggc ctgttgacct gcagcggcgc cgtccccggt ggtggaagca gtcggggccg gccttggcgg tagaaaaag agaaggagga aatgacgaga gaacaaatta accaaattca caaccacgtc gtctactact ctgggaaatg aaattacaga ccagacctga gagatagata cccggatgga ggtggcggcg agccagaaac cgtggccggg ggcggcagcg gggcccaggg 808688868 ggcaagatac caagggtaaa gatgaatgaa agatgtaaca tccaggtagc ggccctcccc gcaaccagta caagagcgat gatgcctagt tggccgtggc cgtcggcagc ctcggggccg ccagggcagc tccccagagt gggggagagc cggcggccgt accccagcg ttagcgcatc aaggagtcgg tcaatcagaa caattttcaa tcagtgctgg ccggcaagat gagataag cgtcggggag tggactgccc aacctcagct daadaabaad agcaggagga tctgtggccg gcgctcgggg адсадддддд

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cgtggaaaag

tctctqctgc

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28/50 agtggagatg aattgctaga ctgagcacat taatagcaag aaaggtagca agtaccaaat tatactttat atgactatat gaagacatta ctgatggccg tatatctatt aacagatttt cccaaqaqca aaaagtgtac ttttgatgta gagtcttta agtctactgg agacaaataa tgttacagat ggaggaggca tgacatggac acagatcagg actgtatata atcactgtaa actgaccttc gacttaaaat ggccaggtgc aagctttcat gcaagaaact aagtagacat gcctgtaaga ttagatgtat tttaatataa ttcttccatc actgggtttc caatgccttt attatacttc gtaactttcg gcagctttga caacaagtac ccctctgca gacacggagg tgaatcctag ccccacagt tacctgtaca attaaagatt ccggtgcagt tgcgcccatc atatgatcag tagcactaac aaacatttcc atatttgttt cacatctcaa agagcgagtc ccgggctgcg atgtttattt aagtttccca aggcgtaaga agctttttaa cagggccctt tgaaagaaga acatcctgtc aacaqaatta attccaaatg cttacgtgaa tttggcttaa ggaaacagga tcac

ID NO:5

B

F=

SEQ

PCT/CA98/01059

SEQ ID NO:6

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# Mouse DNA demethylase-dMTase2 and predicted amino acid sequence

DOSSILL "COCKID

30/50 gagacgctgc gtacggaagc gcccgagacg gaggaggagg atcaccaacc ctggtcagga cagctctctg tgcaaagcct ctgaacaccg aggcagcttt ggatccatgg aataagagtc cggaaaagcc tgggaaaggg tactataqcc gaggcccgtg gcggggaggg acgagcccgg 占 7 x ( ggtacagcag ggaggagctt ggaggaggaa caagcctgac cattacaggc tgcagaagaa acagccactg ggtgaccaag ggaccagccg ctgtacagat ttacctgggc gaacaagatg ggatgtcttt gctgtgaagc gcggagggcg cgaatcggcg ccacggcggg cccgcagggc aggaggagct tagctcatgt agaaggcagt tgggccctgg gcaccctgcc aggaggaaga tgaacactgc gaggaatagg gacaggagat ccggccacag aactggcacg agatgttgat aggtcaaggg tcaagcaacc cctttgacat cctagcgggg ccggctgggg cggagggagc gccgacatgc ggattgagtg ctgcagggag ggtgtgtggc agcgacccgc ctacacacca atcaggaagc gcctgtgcag gagcggcccc tcttccaacc aggtgggagt gggctgtcgg agcaagccac cgcaccggaa gcatccatct ddcddcddcd cggcgcgcgc gtggcggcgg gaagaaccct ggcactgatg agatgacgac actggacaag gcgctatgat acggcagact caaggtcaag gaagctaagt gcccaagggc tgcgagtgct gaagttccgc cttcgacttc cgggtgggcg gctgcggcga ggagcggaag caggaggtcg gtggcgaagc ttgcagaagc gggaggcacc cagccgtgga gcctggagga ccatggactt tgtcagccat tcatggtgac tctgggagaa 5' cacgcgcgggg gggtcgcaac acctcagcac gccagcgtgt cgctgcctgt acccagcaa ggacagaaca aagaagtgcc ccagcgggaa ggggcgcaat ggccgagcgg

SUBSTITUTE SHEET (RULE 26)

agtcactttc cgtccacctc ccttgaactc cagtgaccca caaggccttg gaaacaccc ctgctccggc gctgcagact agggtttgga cccaccagga aggaggcagc agcagatgag tatcatagga gaagtttctg ccaagtctgg ccctgtgga ccacactgaa attacaggcc gggtcagcag ggtgccctgc cctgcctcct ccagacctgt gtgcagggag ggtgctggag cagtcacctc cccacactga ccaggtctca gcaggaagcc agccgtgttg ccctaaggct gtgtagcaca caggtagggg gaacttgtg gcccagcctc gcgctgcctg ttgcctggac cacctggaca caccttatgt ctgatggtag gccagagcga cctcctgctt aggagctggg gccttcagcc acttqtccct actgagaggc cttggcaccg tggctatgcc ccacagggct cttcaataaa aagagccgga cttccaaag

SEQ ID NO:7

PCT/CA98/01059

32/50

SEQ ID NO:8

EKNPGVWLNTAQPLCKAFMVTDDDIRKQEELVQQVRKRLEEALMADMLAH MERKRWECPALPQGWEREEVPRRSGLSAGHRDVFYYSPSGKKFRSKPQLA RYLGGSMDLSTFDFRTGKMLMNKMNKSRQRVRYDSSNQVKGKPDLNTALP VROTASIFKOPVTKITNHPSNKVKSDPQKAVDQPRQLFWEKKLSGLSAFD IAEELVRTMDLPKGLQGVGPGCTDETLLSAIASALHTSTLPITGQLSAAV VEELARDGEAPLDKACAEEEEEEEEEEEEEFEPERV

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Lipman-Pearson Protein Alignment

	Ktuple: 2; Gap Penalty: 4; Gap Length Penalty: 12	Gap Length P	enalty: 12	Similarity	ב מ ני	ים מיני		Consensus	
	Jey 1 (12414)	(coz<1)zhao	5		. dap	. da		energe ion	
_	mouse dMTase1 protein	mouse dMTase2 protein	e2 protein	Index	Numper	Length	c.	Length	
_	(151>400)	(4>253)		75.2	0		0	250	
	(151>400)	(4>253)		75.2	0		Ó	250	
	v160	v170 v1	v180 v	v190	v200	v210	v220		
	KRMICCPAL PPGWKKEEVTRKSGLSAGKSDVYYFSPSGKKFRSKPQLARYLGNAVDLSSFDFRTGKMMPSK	TRKSGLSAG	KSDVYYFS	PSCKKFRS	KPQLARYLC	<b>ENAVDI.SST</b>	FDFRIG	KMMPSK	
	KR : CPALP.GW.: EEV R: SGLSAG DV: Y: SPSGKKFRSKPQLARYLG.:: DLS: FDFRIGKM: :K	R:SGLSAG	IV:Y:S	<b>PSGKKFRS</b>	KPQLARYLO	3. DIS:	FDFRIG	KM: :K	
	KRWECPALPQGWEREEVPRRSGLSAGHRDVFYYSPSGKKFRSKPQLARYLGGSMDLSTFDFRTGKMLMNK	PRRSGLSAG	TRIDVEYYS	<b>PSGKKFRS</b>	KPQLARYIC	SCAMPL ST	FDFRIG	KMIMIK	
	~10	^20	^30	~40°	<sup>^</sup> 50	09~	0	~20	33/5
	v230	v240	v250	v260		v270	v280	v290	0
	LOKNIKORLRNDPI NONKGKEDI NITILIPI ROTASI FKOPVIKETINH PSINKVKSDPORMNEO PROLFWEKRL	CEKEDLNITLI	PIRQIASI	FKQPVIKE	TINHESINKVE	<b>SDPQRMN</b>	<b>EQPRQL</b>	FWEKRL	
	ייסרים אייייאלי אוראייז אייי אייי אייי אייי יי סרים אייייאן אוראייז אייי אייייארי איייי איייי איייי יי סרים איייי	ז ז יודא זרונדאייי	TOKITOT O	EWOD MIK.	TATADOMENT I	ימחם.		TINITIK . I	

 $^{\sim}140$ MNIKSRQRVRYDSSNQVKGKPDLNTALPVRQTASTFKQPVTKTTNHPSNKVKSDPQKAVDQPRQLFWEKKL LOKNIKORI RNDPI NONKGKPDI NITII PIRQIASI FKOPVIKFINHPSNKVKSDPORMNEOPROLFWEKRI ::K::QR:R D: NQ KGKPDINT:LP:RQTASIFKQPVIK:INHPSNKVKSDPQ: :QPRQLFWEK:L v280v270 ^120 v260^110 v250 $^{\sim}100$ v240<u>م</u> v230 08√

 34/50 v360  $^{\sim}210$ OCI SASDVIEDI IKIMEI PKCI QGVGPGSNDEITL SAVASALHISSAPIIGQVSAAVEKNPAVMINISQP SCL SAFDIAEELVRIMDI.PKGLQGVGPGCTDETI.LSAIASALHTSTI.PTTGQLSAAVEKNPGVMLNTAQP GLSA D::E::::TM:LPKGLQGVGFG..DETLLSA:ASALHTS: PITGQ:SAAVEKNP:VMLNT:QP v350 $^{\sim}200$ 

^190

 $^{\sim}180$ 

^170

 $^{160}$ 

^150

v340

**v**330

**v**320

v310

 $\sqrt{300}$ 

v400v390v380 v370

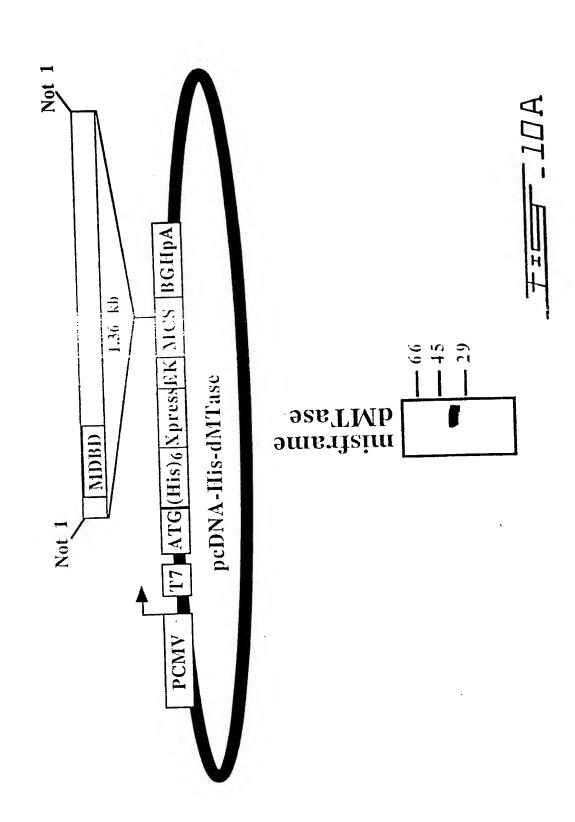
CKAFIVIDEDIRKQEERVQQVRKKI.EEALMADII.SRAAD CKAF: VID: DIRKQEE VQQVRK: LEEALMAD: L::..:

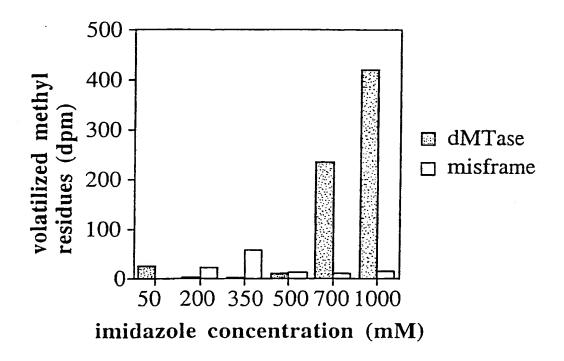
LCKAFMVIDDDIRKQEELVQQVRKRLEEALMADMLAHVEE

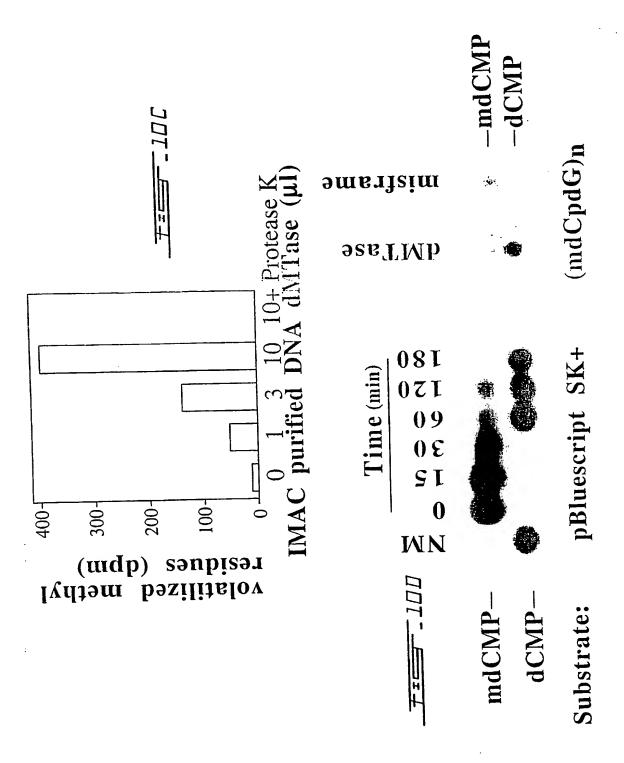
 $^{\sim}240$ ^230  $^{\sim}220$ 

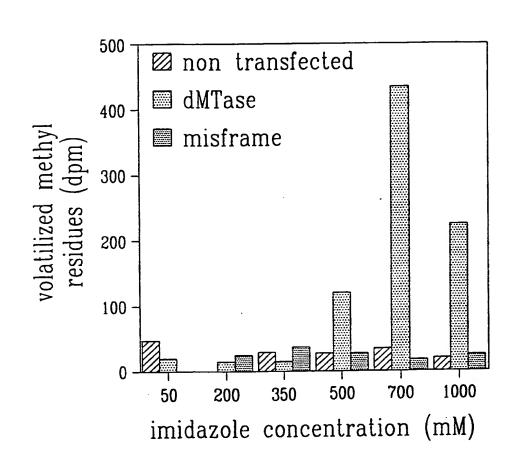
 $^{\sim}250$ 

1B -



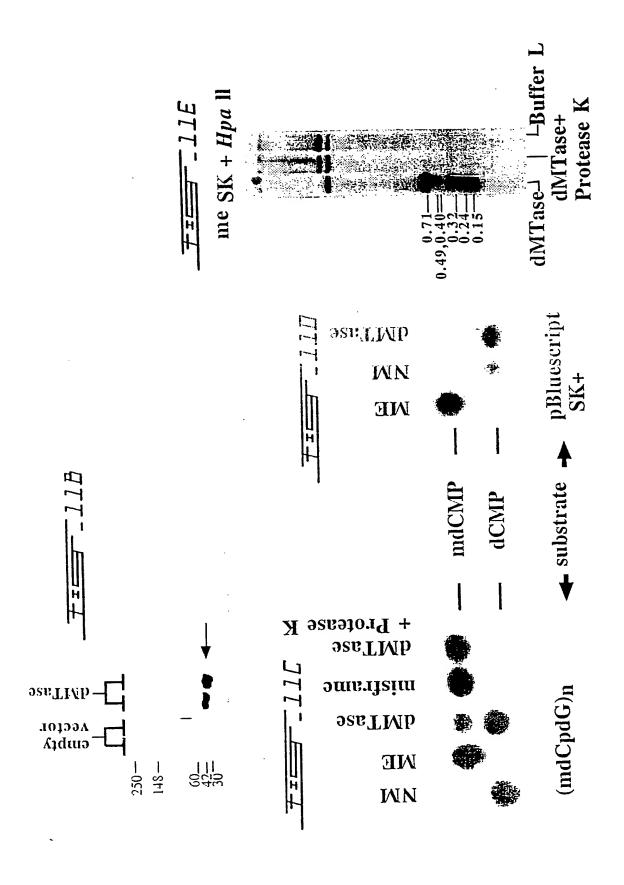


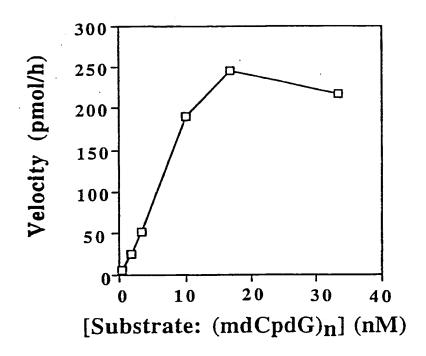




7=== 11A

39/50





- mdCMP - dCMP 001 05 10 methylated CpG DNA (ng) -mdCMP 100

05

01

methylated CpG DNA (ng)

41/50

Transient dMTase

-Origin

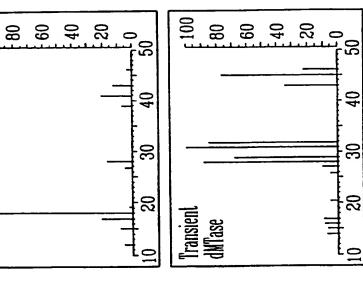
A549 dMTase

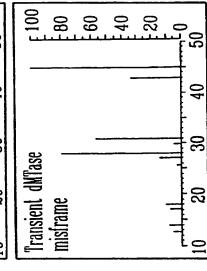
SUBSTITUTE SHEET (RULE 26)

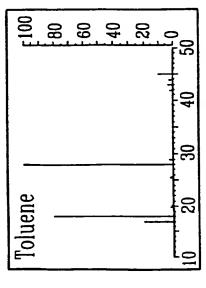
PCT/CA98/01059

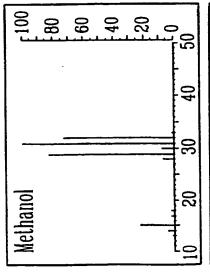
42/50

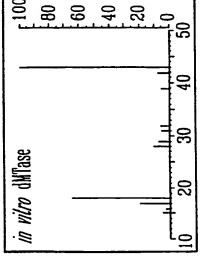
tres-12B





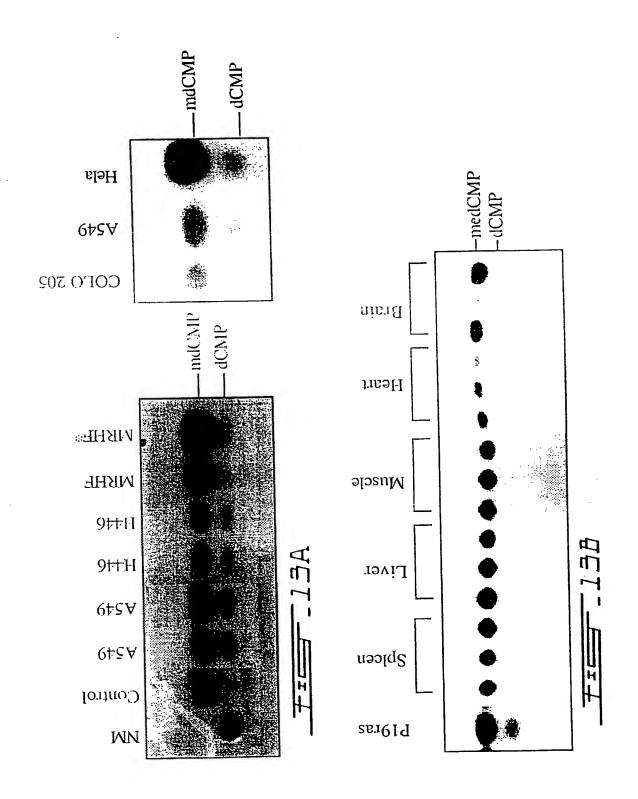






in vitro dMTase misframe F 100

43/50



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